

Amendments to the Claims:

Please amend the claims to replace the submitted claims with the following unamended claims that begin on a separate sheet. This listing of claims will replace all prior versions, and listings of claims in the application.

What is claimed is:

- 1 1. (Original) A cable suitable for electrically connecting a source for generating
2 signals in the audio frequency spectrum and a load, the source having an output
3 connector comprising a first and second output terminal and the load having an input
4 connector comprising a first and second input terminal, said cable comprising:
5 a first conductor having a first end and a second end, and having an input
6 terminal near said first end suitable for electrically connecting to the first output
7 terminal of the source, and having an output terminal near the second end, suitable
8 for electrically connecting to the first input terminal of the load;
9 a second conductor having a first end and a second end, and having an input
10 terminal near said first end suitable for electrically connecting to the second output
11 terminal of the source, and having an output terminal near said second end suitable
12 for electrically connecting to the second input terminal of the load;
13 an input connector electrically coupled to the input terminals of the first and
14 second conductor, suitable for effecting an electrical connection between the input
15 terminal of the first conductor and the first output terminal of the source and
16 between the input terminal of the second conductor and the second output terminal
17 of the source;
18 an output connector electrically coupled to the output terminals of the first
19 and second conductor, suitable for effecting an electrical connection between the
20 output terminal of the first conductor and the first input terminal of the load and
21 between the output terminal of the second conductor and the second input terminal
22 of the load;
23 a network comprising:
24 a circuit, said circuit comprising a resistive element electrically
25 coupled in series with a capacitive element,
26 said capacitive element and resistive elements having values such that the
27 phase angle of the circuit is approximately -45 degrees at a selected frequency
28 within the audio frequency range and such that the measured impedance of
29 the network at all frequencies in a predetermined frequency range is equal to

30 or greater than .20 MΩ,
31 wherein said circuit is electrically coupled between the first conductor and the
32 second conductor.

1 2. (Original) The cable of claim 1, wherein the first conductor has a phase
2 angle of 45 degrees at a known approximate frequency, and the selected frequency
3 of the circuit is not equal to the known approximate frequency.

1 3. (Original) The cable of claim 1, wherein the first conductor has a phase
2 angle of 45 degrees at a known approximate frequency, and the selected frequency
3 of the circuit is equal to the known approximate frequency.

1 4. (Original) The cable of claim 1, wherein the network further comprises a
2 plurality of circuits each said circuit comprising:
3 a resistive element electrically coupled in series with a capacitive
4 element, said capacitive element and resistive element having values
5 such that the phase angle of the circuit is approximately -45 degrees at
6 a selected frequency within the audio frequency range and such that
7 the measured impedance of the circuits when connected in parallel, at
8 all frequencies in the predetermined frequency range, is equal to or
9 greater than .20 MΩ,
10 wherein each said circuit is electrically coupled between the first conductor and
11 the second conductor.

1 5. (Original) The cable of claim 4, wherein the first conductor has a phase
2 angle of 45 degrees at a known approximate frequency, and the capacitive elements
3 and the resistive elements of each of the plurality of circuits have values such that the
4 selected frequency of each circuit is not equal to the known approximate frequency.

1 6. (Original) The cable of claim 4, wherein the first conductor has a phase
2 angle of 45 degrees at a known approximate frequency, and the selected frequency
3 of at least one of the circuits is equal to the known approximate frequency.

1 7. (Original) The cable of claim 5, wherein the selected frequency of each of
2 the circuits is not equal to the selected frequency of any of the other circuits.

1 8. (Original) The cable of claim 7, wherein the selected frequencies of the
2 plurality of circuits are approximately equally distributed on a logarithmic scale
3 within a selected frequency range, said selected frequency range being in the
4 audio frequency range.

1 9. (Original) The cable of claim 1, wherein the source is an electrical musical
2 instrument.

1 10. (Original) The cable of claim 1, wherein the circuit further comprises an
2 inductive element electrically coupled to the capacitive element such that said
3 inductive element, capacitive element and resistive element are connected in series,
4 said capacitive element, inductive element and resistive element having values such
5 that the phase angle of the circuit is approximately -45 degrees at a selected
6 frequency within the audio frequency range.

1 11. (Original) The cable of claim 10, wherein the first conductor has a phase
2 angle of 45 degrees at a known approximate frequency, and the selected frequency
3 of the circuit is not equal to the known approximate frequency.

1 12. (Original) The cable of claim 10, wherein the first conductor has a phase
2 angle of 45 degrees at a known approximate frequency, and the selected frequency
3 of the circuit is equal to the known approximate frequency.

1 13. (Original) The cable of claim 10, wherein the source is an electrical musical
2 instrument.

1 14. (Original) A method for modifying the audio output of a system comprising
2 a cable, said cable comprising a first conductor and a ground, a source of electrical

3 signals, and an amplifier, said method comprising the steps of:
4 determining the approximate frequency at which the phase angle of the first
5 conductor is equal to 45 degrees;
6 determining the inherent capacitance of the cable;
7 selecting at least one target frequency within the audio frequency range that
8 is not equal to the approximate frequency at which the phase angle of the first
9 conductor is equal to 45 degrees;
10 selecting a network comprising a resistive element and a capacitive element
11 electrically coupled in series, such that the phase angle of the network is equal to -
12 45 degrees at the target frequency, and the measured impedance of the network at
13 all frequencies in a predetermined frequency range is equal to or greater than .20
14 M Ω , and the combined capacitance of the capacitive element and the inherent
15 capacitance of the cable is less than 2500 pF;
16 electrically connecting the network between the first conductor and the
17 ground; and
18 connecting the cable between the source and the amplifier.

Respectfully submitted,

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